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(57)Abstract:

SOLUTION: In the wireless communications equipment where delay profile estimate units 12-1 to 12-N estimate a delay profile between a desired wave and its delay wave for each reception signal from each of directive antennas 10-1 to 10-N configuring an array antenna, and an adaptive signal processing section 14 and a path diversity synthesizer 15 apply time spatial equalization signal processing to a received signal from an antenna

[illegible]

reception output, a DOA estimate unit estimates an arrival angular range of the desired wave from the delay profile estimated by the delay profile estimate units 12-1 to 12-N and a transmission antenna selector 18 selects an antenna used for the transmission, on the basis of the estimated arrival angular range and the selected antenna is used for transmission.

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